

**Methods and Compositions for Treating Abnormal Cell Growth Related to  
Unwanted Guanine Nucleotide Exchange Factor Activity**

Abstract

5 Methods and compositions are described that affect the GTPase activity of  
members of the Ras superfamily, preferably Rac, such compositions include  
guanine nucleotide exchange factors that modulate the GTPase activity,  
preferably in the presence of GEF enhancers, exemplary guanine nucleotide  
exchange factors being Rac-GEF and Tiam-1, which are encoded by certain  
10 nucleic acid sequences that are herein described, along with uses for the  
guanine nucleotide exchange factors and the nucleic acid sequences  
including screening for ligands which recognize Rac-GEF, regulators of  
Rac-GEF activity, and methods of treating pathological conditions  
associated or related to a Ras superfamily GTPase, including Rac.